

CURRICULUM VITAE

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Education: B.S. (1977) Kansas State University, Manhattan, Kansas
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Ph.D. (1983) University of Illinois, Urbana, Illinois
Post-Ph.D. (1983-1985) University of Wisconsin, Madison

Positions: Research Assistant, Department of Animal Science, Kansas State University, Manhattan, Kansas, 1977-1979.
Research Assistant, Department of Animal Science, University of Illinois, Urbana, Illinois, 1979-1980 and 1981-1982.
NIH Fellow, Reproductive Biology Training Grant, University of Illinois, Urbana, Illinois, 1980-1981 and 1982-1983.
Research Associate, Department of Animal Science, University of Wisconsin, Madison, Wisconsin, 1983-1985.
Assistant Professor, Department of Veterinary and Animal Sciences, University of Massachusetts, Amherst, Massachusetts, 1985-1991.
Associate Professor, Department of Veterinary and Animal Sciences, University of Massachusetts, Amherst, Massachusetts, 1991-1997.
Professor, Department of Veterinary and Animal Sciences, University of Massachusetts, Amherst, Massachusetts, 1997-present.

Patents:

Prather, R.S., F. Barnes, J. Robl, N.L. First and V. Simmon. 1991. Multiplying bovine embryos. No. 4,994,384.

Inventor on 11 additional patent filings

Books:

Monastersky, G.M. and J.M. Robl. 1995. Strategies in Transgenic Animal Science. American Society for Microbiology Press, Washington, D.C.

Documentaries:

Cracking the Code. PBS. 1997. Emmy nomination

The Organ Tuners. NHK. 1997. Shown at the Cannes Film Festival

Understanding: The Power of Genes. TLC. 1998.

Publications:

Robl, J.M. and D.L. Davis. 1981. Effects of serum on swine morulae and blastocysts *in vitro*. J. Anim. Sci. 52:1450-1456.

Peterson, R.N., J.M. Robl, P.J. Dziuk and L.D. Russell. 1982. The effects of anti-sperm plasma membrane antibodies on sperm-egg binding, penetration and fertilization in the pig. J. Exp. Zool. 223:79-81.

Robl, J.M. and P.J. Dziuk. 1984. Influence of the concentration of sperm on the percentage of eggs fertilized for three strains of mice. Gamete Res. 10:415-422.

First, N.L., J. Lohse, J. Robl, E. Critser and J. Rutledge. 1984. Cloning and gene transfer in mammals. Proc. Poultry Breeders Roundtable.

Robl, J.M., P.J. Thomford, M.C. Wu and P.J. Dziuk. 1985. Effect of estrogen, testosterone and phenobarbital on uterine weight and liver microsomal enzymes in prepubertal mice. Pediatric Pharmacology 5:157-164.

Robl, J.M. and N.L. First. 1985. Manipulation of gametes and embryos in the pig. J. Reprod. Fert. Suppl. 33:101-114.

Robl, J.M., B. Gilligan, E.S. Critser and N.L. First. 1986. Nuclear transplantation in the mouse embryo: Assessment of recipient cell stage. Biol. Reprod. 34:733-739.

First, N.L., E.S. Critser and J.M. Robl. 1986. Bovine embryo: development, cloning, sexing and transfer of genes. In: Immunological Approaches to Contraception and Promotion of Fertility. G.P. Talwar Ed. Plenum Publishing Corp.

Robl, J.M., R. Prather, F. Barnes, W. Eyestone, D. Northey, B. Gilligan and N.L. First. 1987. Nuclear transplantation in bovine embryos. J. Anim. Sci. 64:642-647.

Barnes, F., J.M. Robl and N.L. First. 1987. Nuclear transplantation in mouse embryos: Assessment of nuclear function. Biol. Reprod. 36:1267-1274.

Robl, J.M. and P.J. Dziuk. 1987. Penetration of mouse eggs at various intervals after insemination as influenced by concentration of sperm and strain of male. J. Exp. Zool. 242:181-187.

- Prather, R.S., F.L. Barnes, M.L. Sims, J.M. Robl, W.H. Eyestone and N.L. First. 1987. Nuclear transplantation in the bovine embryo: assessment of donor nuclei and recipient oocyte. *Biol. Reprod.* 37:859-866.
- Robl, J.M.. 1987. Animal cell biotechnology. *BioScience* 37:738 (book review).
- Robl, J.M. and P.J. Dziuk. 1988. Comparison of heterospermic and homospermic inseminations as measures of male fertility. *J. Exp. Zool.* 245:97-101.
- Robl, J.M., J.K. Lohse-Heidman and N.L. First. 1988. Strain differences in early mouse embryo development *in vitro*: role of the nucleus. *J. Exp. Zool.* 247:251-256.
- Stice, S.L. and J.M. Robl. 1988. Nuclear reprogramming in nuclear transplant rabbit embryos. *Biol. Reprod.* 39:657-664.
- Robl, J.M. and S.L. Stice. 1988. Principles of micromanipulation. In: Hands-on IVF, Cryopreservation, and Micromanipulation. N.L. First and A.H. DeCherney Ed.
- Robl, J.M. and S.L. Stice. 1988. Prospects for the commercial cloning of animals by nuclear transplantation. *Theriogenology* 31:75-84.
- Stice, S.L. and J.M. Robl. 1989. Current successes in cloning mammalian embryos. *Age*. 12:83-88.
- Collas, P., J.J. Balise, G.A. Hofman and J.M. Robl. 1989. Electrical activation of mouse oocytes. *Theriogenology* 32:835-844.
- Stice, S.L. and J.M. Robl. 1990. Activation of mammalian oocytes by a factor obtained from rabbit sperm. *Mol. Reprod. Devel.* 25:272-280.
- Boice, M.L., R.T. Duby and J.M. Robl. 1990. Rabbit sperm function after co-culture with uterine epithelial cells. *Theriogenology* 34:113-125.
- Collas, P. and J.M. Robl. 1990. Factors affecting the efficiency of nuclear transplantation in the rabbit embryo. *Biol. Reprod.* 43:877-884.
- Reddy, V.B., J.A. Vitale, C. Wei, M. Montoya-Zavala, S.L. Stice, J.J. Balise and J.M. Robl. 1991. Expression of human growth hormone in the milk of transgenic mice. *Animal Biotechnology* 2:15-29.
- Collas, P., R.T. Duby and J.M. Robl. 1991. In vitro development of rabbit pronuclear embryos in rabbit peritoneal fluid. *Biol. Reprod.* 44:1100-1107.